

Client:	FG Prescott	Job No.	200542
Job Name:	Yavapai County Standard plans		
Address:		City:	Prescott
		State:	AZ



MiTek USA, Inc.

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 200542-R2 **2 bedroom**
Yavapai County Standard plans

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Foxworth Galbraith-Dewey, AZ.

Pages or sheets covered by this seal: R63379978 thru R63379993

My license renewal date for the state of Arizona is September 30, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



EXPIRES 09/30/2022

August 18, 2020

Hernandez, Marcos

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

REVIEWED FOR
DESIGN CRITERIA
ONLY

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379978
200542-R2	A01G	Hip Girder	2	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:21 2020 Page 1
ID:zw8m9IEhAc?5uCa?VSsBBz3APh-yVQSpObG22NxR9jI6WcPxjpanMiX7eYO2r4pa3ymf9a

-2-0-0	4-7-14	8-0-0	12-2-0	16-4-0	19-8-2	24-4-0
2-0-0	4-7-14	3-4-2	4-2-0	4-2-0	3-4-2	4-7-14

Scale = 1:43.8

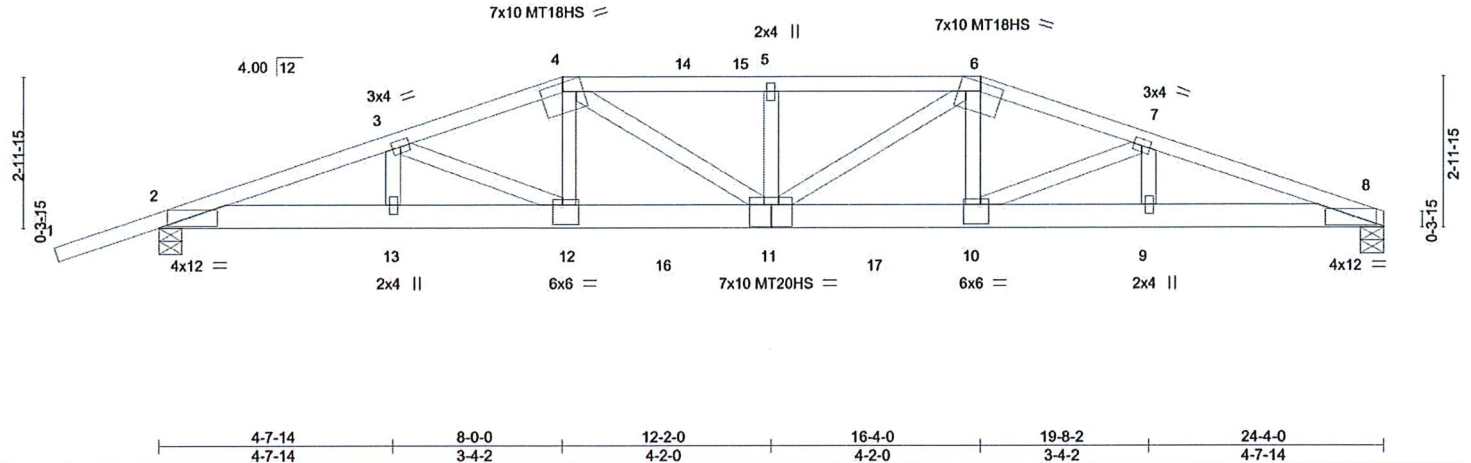


Plate Offsets (X,Y)-- [2:0-6-0,0-1-11], [4:0-5-0,0-2-0], [6:0-5-0,0-2-0], [8:0-6-0,0-1-11], [10:0-2-0,0-4-8], [11:0-5-0,0-5-4], [12:0-2-0,0-4-8]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 40.0		Plate Grip DOL		1.15		TC 1.00		Vert(LL)		-0.46		11		>629		240		MT20 185/144	
(Roof Snow=40.0)		Lumber DOL		1.15		BC 0.72		Vert(CT)		-0.68		11		>422		180		MT20HS 139/108	
TCDL 20.0		Rep Stress Incr		NO		WB 0.70		Horz(CT)		0.12		8		n/a		n/a		MT18HS 185/144	
BCLL 0.0 *		Code IRC2018/TPI2014				Matrix-S												Weight: 207 lb FT = 20%	
BCDL 10.0																			

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

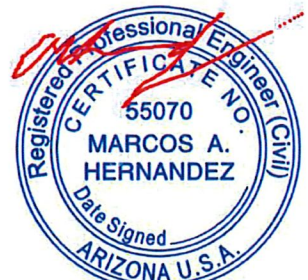
REACTIONS. (size) 8=0-5-8, 2=0-5-8
Max Horz 2=47(LC 5)
Max Uplift 8=420(LC 9), 2=511(LC 9)
Max Grav 8=4930(LC 28), 2=5354(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-13573/1115, 3-4=-13745/1184, 4-5=-14949/1290, 5-6=-14949/1290,
6-7=-13804/1197, 7-8=-13762/1175
BOT CHORD 2-13=-1021/12759, 12-13=-1021/12759, 11-12=-1062/13133, 10-11=-1075/13189,
9-10=-1081/12950, 8-9=-1081/12950
WEBS 3-13=-545/98, 3-12=-638/584, 4-12=-208/2679, 4-11=-218/2471, 5-11=-711/140,
6-11=-177/2437, 6-10=-224/2747, 7-10=-807/502, 7-9=-486/76

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=420, 2=511.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



REVIEWED FOR DESIGN CRITERIA ONLY
EXPIRES: 09/30/2022
August 18, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379978
200542-R2	A01G	Hip Girder	2	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:21 2020 Page 2
ID:zw8m9fEhAc?s5uca?VSsBBz3APh-yVQSpObG22NxR9ji6WcPxjpanMiX7eYO2r4pa3ymf9a

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1774 lb down and 206 lb up at 8-0-0, 674 lb down and 60 lb up at 10-0-12, 674 lb down and 60 lb up at 12-0-12, 674 lb down and 60 lb up at 12-3-4, and 674 lb down and 60 lb up at 14-3-4, and 1774 lb down and 206 lb up at 16-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-120, 4-6=-120, 6-8=-120, 2-8=-20

Concentrated Loads (lb)

Vert: 12=-1774(B) 11=-1349(B) 10=-1774(B) 16=-674(B) 17=-674(B)

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379979
200542-R2	A02	Hip	2	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:22 2020 Page 1

ID:zw8m9fEhAc?s5uca?VSsBBz3APh-Qh_q1kcupMVo3JHugE7eTwMnOm_Ls6vXHVqN7Vymf9Z

-2-0-0	5-4-14	10-0-0	14-4-0	18-11-2	24-4-0
2-0-0	5-4-14	4-7-2	4-4-0	4-7-2	5-4-14

Scale = 1:44.0

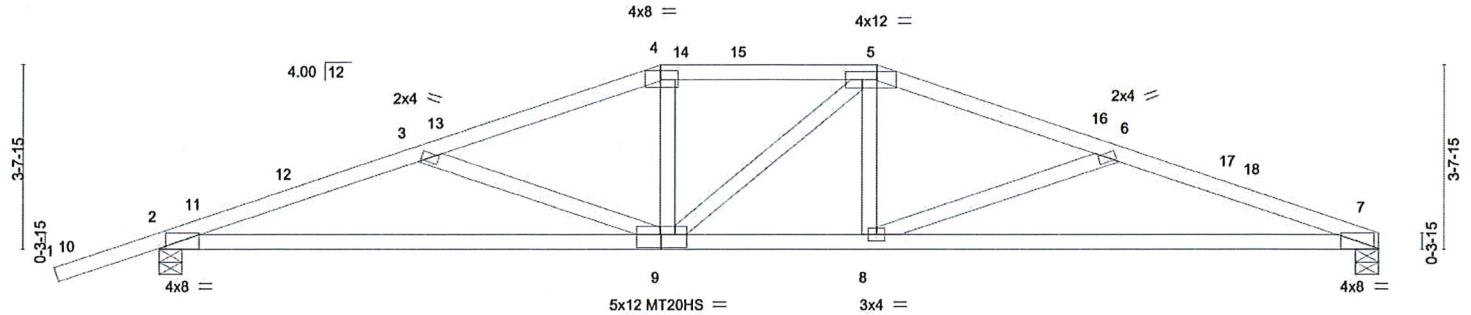


Plate Offsets (X,Y)--	[2:0-1-10,Edge], [4:0-4-4,0-2-4], [5:0-7-8,0-2-0], [7:0-1-2,Edge], [9:0-6-0,0-3-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.28 8-9 >999 240	MT20HS	139/108
TCDL 20.0	Lumber DOL 1.15	WB 0.63	Vert(CT) -0.56 7-8 >510 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.14 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
7-9: 2x4 SPF 2100F 1.8E
WEBS 2x4 HF Stud/Std *Except*
3-9,6-8: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

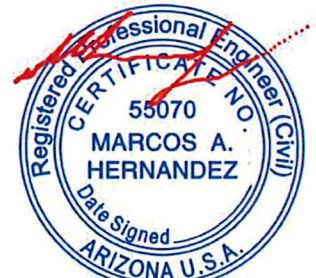
(size) 7=0-5-8, 2=0-5-8
Max Horz 2=50(LC 12)
Max Uplift 7=149(LC 13), 2=241(LC 13)
Max Grav 7=2019(LC 32), 2=2442(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4714/741, 3-4=-3520/575, 4-5=-3209/574, 5-6=-3537/566, 6-7=-4843/734
BOT CHORD 2-9=-662/4307, 8-9=-423/3240, 7-8=-647/4482
WEBS 3-9=-1172/237, 4-9=-23/555, 5-9=-314/266, 5-8=-40/613, 6-8=-1345/268

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 10-0-0, Exterior(2E) 10-0-0 to 14-4-0, Exterior(2R) 14-4-0 to 18-6-15, Interior(1) 18-6-15 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=149, 2=241.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR DESIGN CRITERIA ONLY
EXPIRES 09/30/2022
August 18, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379980
200542-R2	A03	Hip	2	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

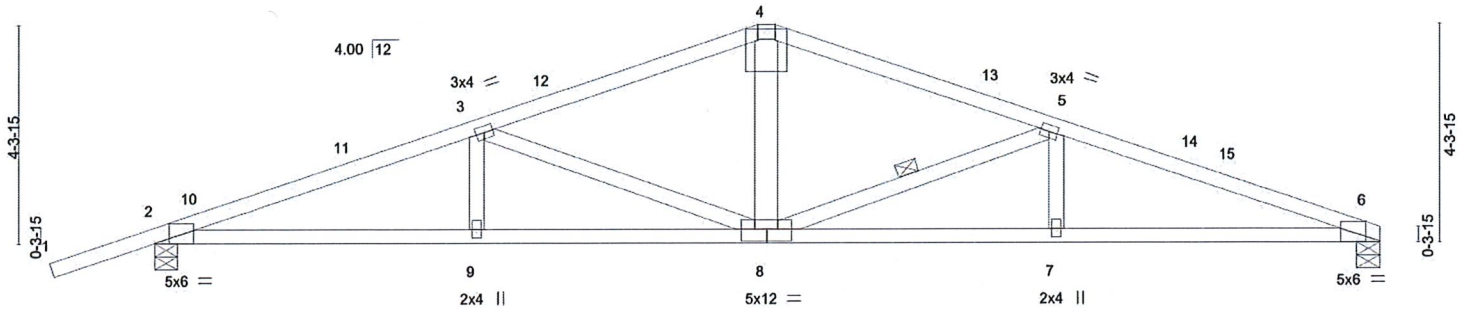
8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:23 2020 Page 1

ID:zw8m9fEhAc?s5uca?VSsBBz3APh-utYCE4cWafdhTs4Exet08ux0AMQbSbhW9Zwfyymf9Y

-2-0-0	6-4-14	12-0-0	12-4-0	17-11-2	24-4-0
2-0-0	6-4-14	5-7-2	0-4-0	5-7-2	6-4-14

Scale = 1:43.8

10x10 MT18HS ||



6-4-14	12-0-0	12-4-0	17-11-2	24-4-0
6-4-14	5-7-2	0-4-0	5-7-2	6-4-14

Plate Offsets (X,Y)-- [2:0-3-7,Edge], [4:0-0-12,0-5-0], [6:0-3-3,Edge], [8:0-6-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.96	Vert(LL) -0.22	8-9	>999	240	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.82	Vert(CT) -0.40	8-9	>714	180	MT18HS	197/144
TCDL 20.0	Lumber DOL 1.15	WB 0.98	Horz(CT) 0.13	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
4-4: 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
3-9,5-7: 2x4 HF Stud/Stid, 4-8: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.
WEBS 1 Row at midpt 5-8

REACTIONS.

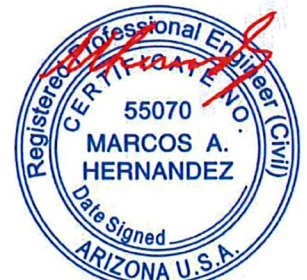
(size) 6=0-5-8, 2=0-5-8
Max Horz 2=58(LC 12)
Max Uplift 6=149(LC 13), 2=241(LC 13)
Max Grav 6=1731(LC 19), 2=2024(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4130/617, 3-4=-2737/472, 4-5=-2740/481, 5-6=-4220/625
BOT CHORD 2-9=-539/3785, 8-9=-539/3785, 7-8=-536/3907, 6-7=-536/3907
WEBS 3-8=-1547/235, 4-8=-128/1001, 5-8=-1661/255

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-2-0, Exterior(2R) 12-2-0 to 16-4-15, Interior(1) 16-4-15 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=149, 2=241.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR EXPIRES 09/30/2022
DESIGN CRITERIA August 18, 2020
ONLY

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379981
200542-R2	A04	Common	4	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:24 2020 Page 1
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		8-4-9		15-11-7		24-4-0															
		8-4-9		7-6-13		8-4-9															
Plate Offsets (X,Y)-- [2:0-3-7,Edge], [6:0-3-7,Edge], [8:0-2-12,Edge]																					
LOADING (psf)		SPACING-		2-0-0		CSL		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL 40.0		Plate Grip DOL		1.15		TC 0.96		Vert(LL)		-0.23		7-8		>999		240		MT20		185/144	
(Roof Snow=40.0)		Lumber DOL		1.15		BC 0.87		Vert(CT)		-0.41		6-7		>694		180					
TCDL 20.0		Rep Stress Incr		YES		WB 0.32		Horz(CT)		0.12		6		n/a		n/a					
BCLL 0.0 *		Code IRC2018/TPI2014				Matrix-S												Weight: 78 lb		FT = 20%	
BCDL 10.0																					

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
5-7,3-8: 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=58(LC 12)
Max Uplift 6=149(LC 13), 2=241(LC 13)
Max Grav 6=1731(LC 19), 2=2024(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4111/610, 3-4=-3431/549, 4-5=-3512/564, 5-6=-4192/628
BOT CHORD 2-8=-529/3769, 7-8=-305/2435, 6-7=-539/3882
WEBS 4-7=-141/1285, 5-7=-1044/217, 4-8=-123/1202, 3-8=-985/205

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=149, 2=241.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR EXPIRES: 09/30/2022
DESIGN CRITERIA August 18, 2020
ONLY

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MiTek
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379982
200542-R2	B01	Common	5	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:24 2020 Page 1

ID:zw8m9IEhAc?s5uca?VsBBz3APh-M46aRQd9LzIWIdRHoe96YLRAIaj6K?PqkpJTBOymf9X

-2-0-0	5-4-14	10-0-0	14-7-2	20-0-0	22-0-0
2-0-0	5-4-14	4-7-2	4-7-2	5-4-14	2-0-0

Scale = 1:38.8

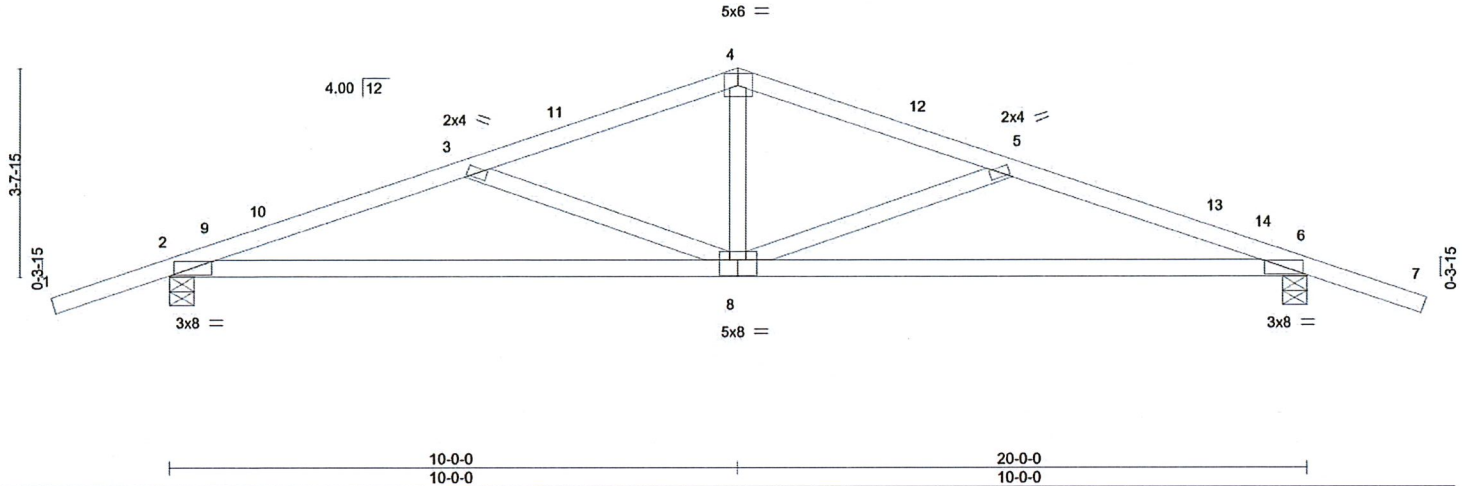


Plate Offsets (X,Y)-- [8:0-4-0,0-3-4]		10-0-0		20-0-0	
LOADING (psf)		SPACING-		CSI.	
TCLL 40.0		2-0-0		TC 0.67	
(Roof Snow=40.0)		Plate Grip DOL 1.15		BC 0.73	
TCDL 20.0		Lumber DOL 1.15		WB 0.63	
BCLL 0.0 *		Rep Stress Incr YES		Matrix-S	
BCDL 10.0		Code IRC2018/TPI2014			
				DEFL. in (loc) l/defl L/d	
				Vert(LL) -0.14 8 >999 240	
				Vert(CT) -0.34 6-8 >687 180	
				Horz(CT) 0.08 6 n/a n/a	
				PLATES GRIP	
				MT20 185/144	
				Weight: 67 lb FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-4, 6=0-5-4
Max Horz 2=47(LC 12)
Max Uplift 2=-208(LC 13), 6=-208(LC 13)
Max Grav 2=1759(LC 18), 6=1759(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3311/510, 3-4=-2196/349, 4-5=-2196/349, 5-6=-3311/510
BOT CHORD 2-8=-402/3017, 6-8=-415/3017
WEBS 4-8=-55/779, 5-8=-1179/240, 3-8=-1179/241

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 22-0-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=208, 6=208.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR DESIGN CRITERIA ONLY
EXPIRES: 09/30/2022
August 18, 2020

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MiTek
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379983
200542-R2	B02G	Hip Girder	1	2	Job Reference (optional)	

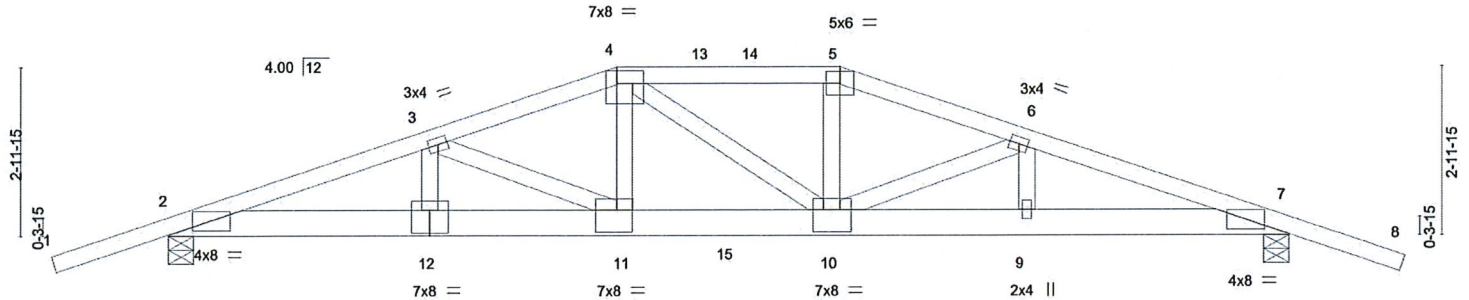
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:25 2020 Page 1

ID:zw8m9fEhAc?55uca?V5sBBz3APH-qGfzfm6HINwm0TLMhL5Z_JT_3J3RG_zT21jqymf9W

-2-0-0	4-7-14	8-0-0	12-0-0	15-4-2	20-0-0	22-0-0
2-0-0	4-7-14	3-4-2	4-0-0	3-4-2	4-7-14	2-0-0

Scale = 1:39.4



	4-7-14	8-0-0	12-0-0	15-4-2	20-0-0	
	4-7-14	3-4-2	4-0-0	3-4-2	4-7-14	

Plate Offsets (X,Y)-- [2:0-5-2,0-1-0], [4:0-5-12,0-2-12], [7:0-5-2,0-1-0], [10:0-4-0,0-4-12], [11:0-3-8,0-4-12], [12:0-4-0,0-5-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 40.0		Plate Grip DOL 1.15		TC 0.77		Vert(LL) -0.27 10-11 >877 240		MT20	185/144
(Roof Snow=40.0)		Lumber DOL 1.15		BC 0.73		Vert(CT) -0.40 10-11 >593 180			
TCDL 20.0		Rep Stress Incr NO		WB 0.65		Horz(CT) 0.09 7 n/a n/a			
BCLL 0.0 *		Code IRC2018/TPI2014		Matrix-S				Weight: 171 lb	FT = 20%
BCDL 10.0									

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-4, 7=0-5-4
Max Horz 2=39(LC 8)
Max Uplift 2=407(LC 9), 7=407(LC 9)
Max Grav 2=4142(LC 28), 7=4142(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-9817/817, 3-4=-9433/856, 4-5=-8992/833, 5-6=-9424/854, 6-7=-9820/817
BOT CHORD 2-12=-703/9171, 11-12=-703/9171, 10-11=-724/9002, 9-10=-703/9174, 7-9=-703/9174
WEBS 3-12=-345/80, 3-11=-697/201, 4-11=-197/2566, 5-10=-195/2559, 6-10=-704/199, 6-9=-336/78

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=407, 7=407.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1774 lb down and 206 lb up at 8-0-0, and 674 lb down and 60 lb up at 10-0-0, and 1774 lb down and 206 lb up at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

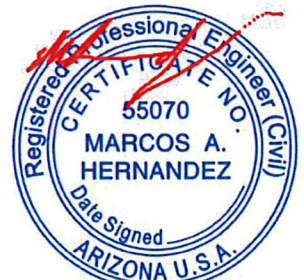


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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EXPIRES: 09/30/2022
August 18, 2020



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379983
200542-R2	B02G	Hip Girder	1	2	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:26 2020 Page 2
ID:zw8m9IEhAc?s5uca?VSsBBz3APh-JSDLs6fPla?EYwbfv3CaemWUCNPYouW7C7oaGHymf9V

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-120, 4-5=-120, 5-8=-120, 2-7=-20

Concentrated Loads (lb)

Vert: 11=-1774(F) 10=-1774(F) 15=-674(F)

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DESIGN CRITERIA
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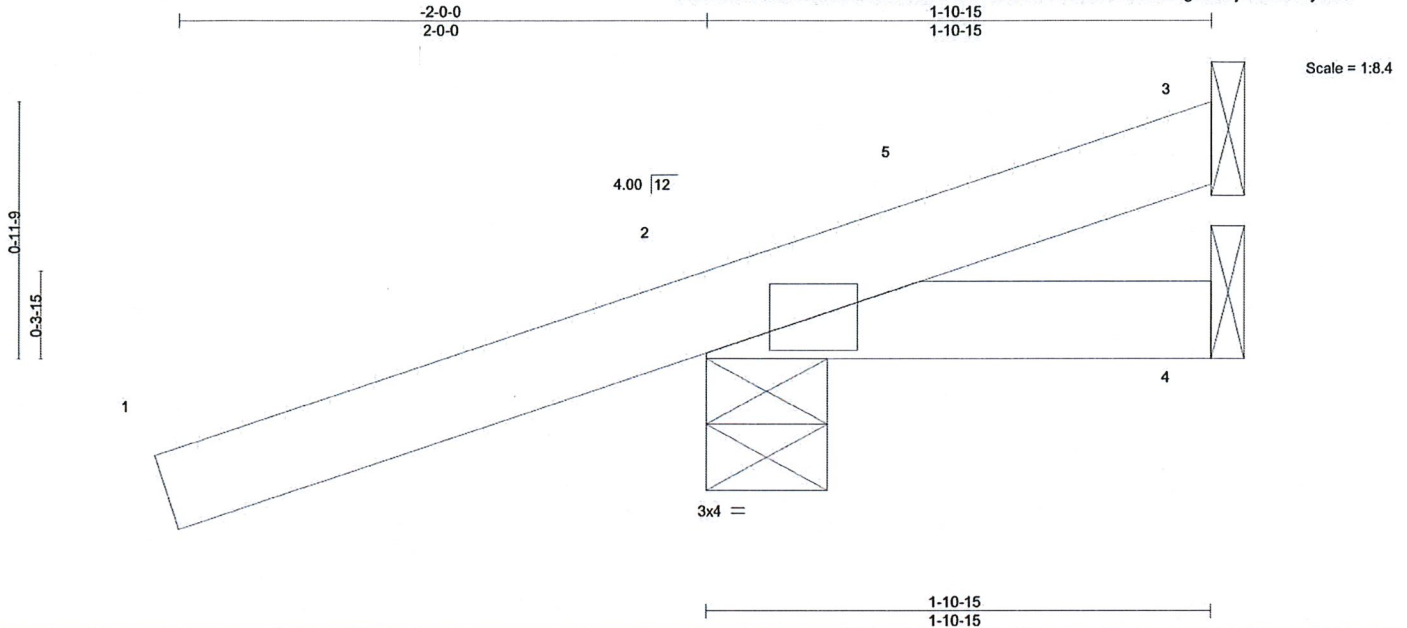


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379984
200542-R2	J02	Jack-Open	12	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:26 2020 Page 1
ID:zw8m9fEhAc?s5uca?VSsBBz3APh-JSDLs6fPia?EYwbv3CaemWWgNafo2j7C7oaGHymf9V



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	0.00	2	****	MT20	197/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	2	>999		
TCDL 20.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P					Weight: 7 lb	FT = 20%
BCDL 10.0									

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=53(LC 13)
Max Uplift 3=-105(LC 17), 2=-133(LC 13)
Max Grav 3=26(LC 13), 2=681(LC 18), 4=19(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=105, 2=133.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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August 18, 2020

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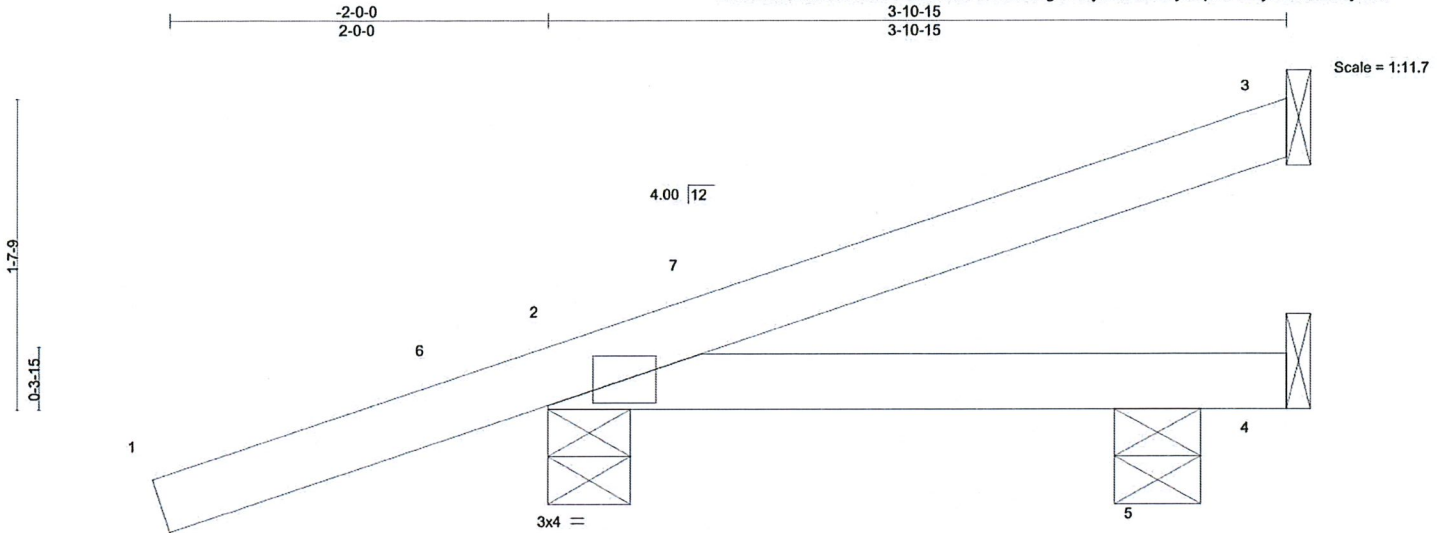


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379985
200542-R2	J03	Jack-Open	12	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:28 2020 Page 1
ID:zw8m9fEhAc?s5uca?VsSBBz3APh-FrL5HogfPCFynEk21UE2jBcq2BGnGyDQIRHhK9ymf9T



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	0.00	5	****	240	MT20	197/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	2-5	>999	180		
TCDL 20.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%
BCDL 10.0										

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

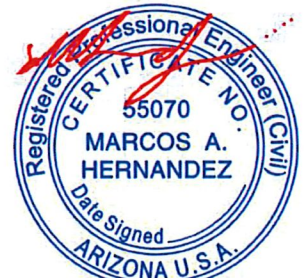
REACTIONS.

(size) 3=Mechanical, 2=0-5-4, 4=Mechanical, 5=0-5-8
Max Horz 2=74(LC 13)
Max Uplift 3=-20(LC 10), 2=-131(LC 13), 4=-24(LC 1)
Max Grav 3=180(LC 18), 2=802(LC 18), 5=73(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=131.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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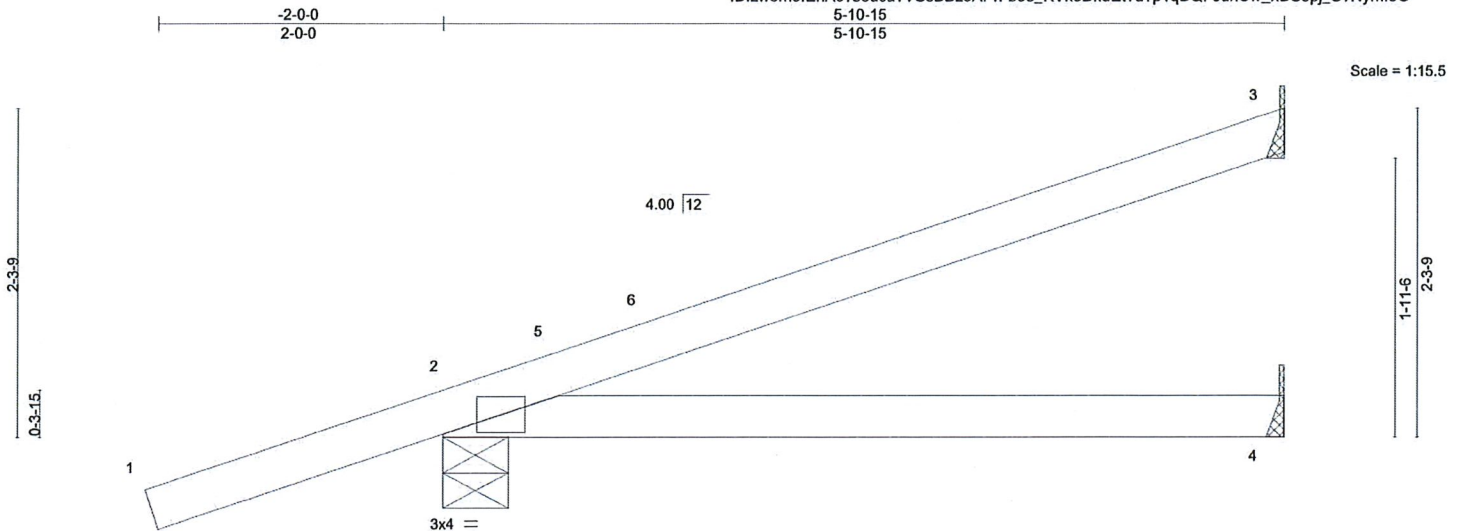


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379986
200542-R2	J04	Jack-Open	11	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:33 2020 Page 1
ID:zw8m9fEhAc?s5uca?VSsBBz3APh-bo8_KVkoDkuEt?d?p1qDQFJdnCw_xDS9pj_S?Nymf90



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	1.00	in (loc)	l/defl	L/d	MT20	197/144	
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.23	2	****	240			
TCDL	20.0	Rep Stress Incr	YES	WB	0.00	2-4	>999	180			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P		3	n/a	n/a			
BCDL	10.0								Weight: 16 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

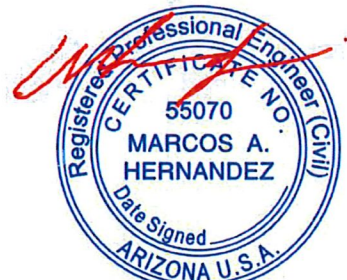
REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=95(LC 13)
Max Uplift 3=-49(LC 13), 2=-126(LC 13)
Max Grav 3=382(LC 18), 2=958(LC 18), 4=56(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 5-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=126.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR DESIGN CRITERIA ONLY
EXPIRES: 09/30/2022
August 18, 2020

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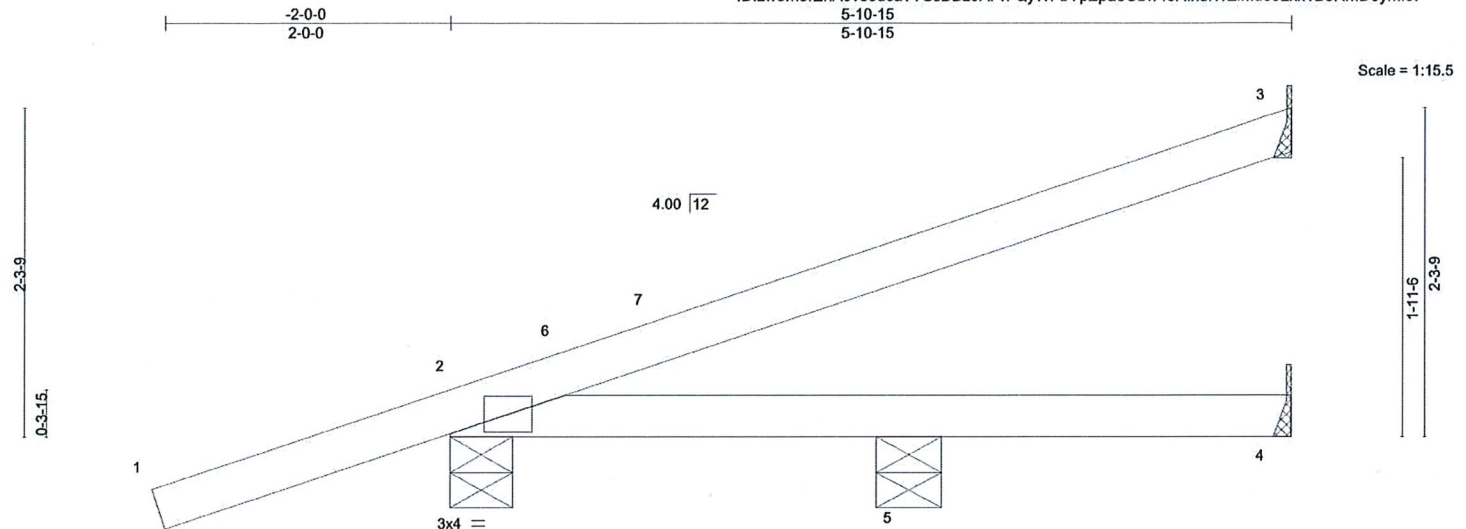


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379987
200542-R2	J05	Jack-Open	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:39 2020 Page 1
ID:zw8m9fEhAc7s5uca7VSsBBz3APh-QyWfbYpZpaeObw49AlxdIWZIMd0JLxx1BeRmD0ymf9l



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	2-0-0		TC	0.80	in (loc)	l/defl	L/d	MT20	197/144	
(Roof Snow=40.0)		Plate Grip DOL	1.15	BC	0.05	0.00	5	240			
TCDL	20.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00	2-5	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		Horz(CT)	-0.00	3	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014									
									Weight: 16 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings Mechanical except (jt=length) 2=0-5-4, 5=0-5-8.
(lb) - Max Horz 2=95(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 3 except 2=138(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 3=384(LC 18), 2=923(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 5-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=138.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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August 18, 2020

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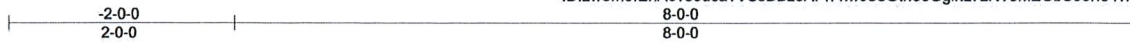


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379988
200542-R2	J06	Jack-Closed	15	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:44 2020 Page 1
ID:zw8m9IEhAc?s5uca?VSsBBz3APh-nwJ8eGthe6Ggihz7zrWoMZGbSeen04vnLw9XuEymf9D



Scale = 1:19.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0 (Roof Snow=40.0)	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.03	8	>999	240	MT20	185/144
TCDL 20.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.05	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF Stud/Std

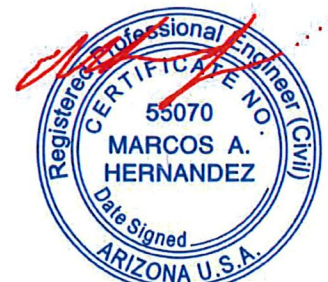
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-5-4
Max Horz 2=114(LC 12)
Max Uplift 7=40(LC 13), 2=141(LC 13)
Max Grav 7=694(LC 18), 2=1015(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1246/165, 4-7=-347/161
BOT CHORD 2-8=-356/1074, 7-8=-356/1074
WEBS 3-7=-1115/336

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior(1) 0-11-7 to 8-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=141.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR EXPIRES: 09/30/2022
DESIGN CRITERIA August 18, 2020
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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379989
200542-R2	JC01	Diagonal Hip Girder	6	1	Job Reference (optional)	

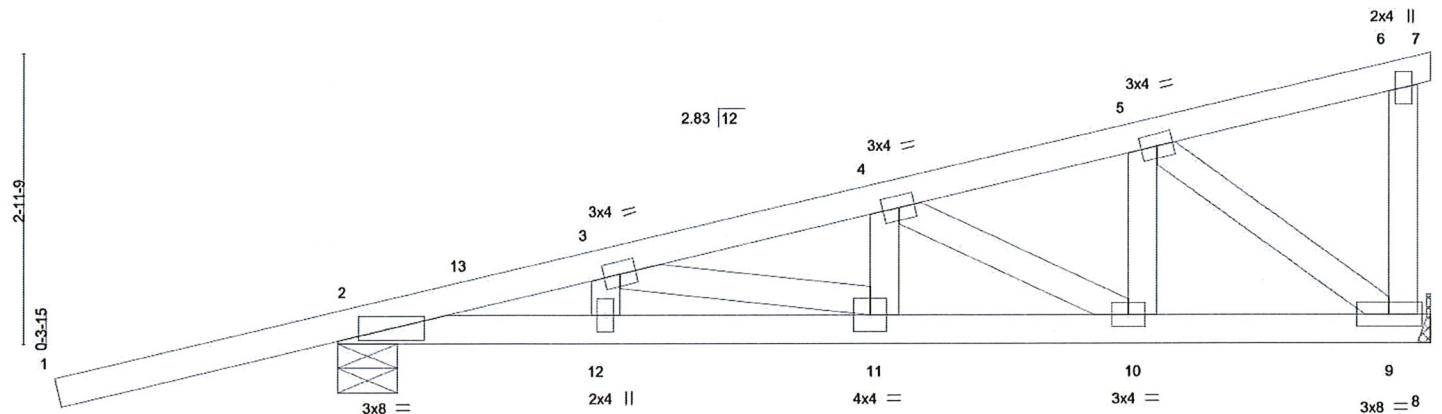
Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

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-2-9-15	2-8-15	5-7-5	8-3-0	11-2-4
2-9-15	2-8-15	2-10-6	2-7-12	2-11-4

Scale = 1:22.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.88	in (loc)	l/defl	L/d	MT20	185/144	
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.73	Vert(LL)	-0.07 11-12	>999			
TCDL	20.0	Rep Stress Incr	NO	WB	0.40	Vert(CT)	-0.09 11-12	>999			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		Horz(CT)	0.02 9	n/a			
BCDL	10.0								Weight: 45 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 2=0-7-6
Max Horz 2=116(LC 35)
Max Uplift 9=-117(LC 5), 2=-250(LC 5)
Max Grav 9=1122(LC 14), 2=1270(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1588/342, 3-4=-1795/230, 4-5=-1244/133
BOT CHORD 2-12=-366/1436, 11-12=-366/1436, 10-11=-267/1720, 9-10=-147/1163
WEBS 3-11=-288/784, 4-10=-626/141, 5-10=-27/372, 5-9=-1419/161

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; PF=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=117, 2=250.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 259 lb up at 2-9-8, 73 lb down and 259 lb up at 2-9-8, 102 lb down and 35 lb up at 5-7-7, 102 lb down and 35 lb up at 5-7-7, and 291 lb down and 78 lb up at 8-5-6, and 291 lb down and 78 lb up at 8-5-6 on top chord, and 8 lb down at 2-9-8, 8 lb down at 2-9-8, 53 lb up at 5-7-7, 53 lb up at 5-7-7, and 46 lb down at 8-5-6, and 46 lb down at 8-5-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-120, 6-7=-120, 2-8=-20

Continued on page 2



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DESIGN CRITERIA August 18, 2020
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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	
200542-R2	JC01	Diagonal Hip Girder	6	1		R63379989
Job Reference (optional)						

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:47 2020 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=133(F=67, B=67) 11=105(F=53, B=53) 4=-45(F=-23, B=-23) 10=-56(F=-28, B=-28) 5=-424(F=-212, B=-212)

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379990
200542-R2	V01	Valley	1	1	Job Reference (optional)	

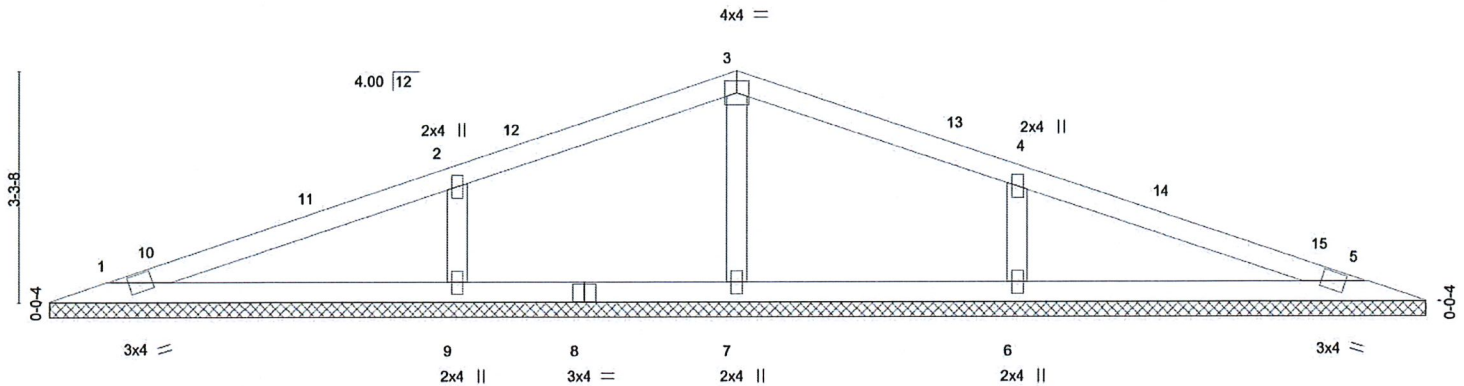
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8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:49 2020 Page 1
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9-10-8
9-10-8

19-9-0
9-10-8

Scale = 1:31.5



0-0-12 0-0-12			19-9-0 19-8-4						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 40.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	n/a	-	n/a	999	MT20
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999	GRIP
TCDL 20.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	5	n/a	n/a	185/144
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S						
BCDL 10.0									Weight: 50 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-7-8.
(lb) - Max Horz 1=-35(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6
Max Grav All reactions 250 lb or less at joint(s) except 1=336(LC 17), 5=336(LC 18), 7=405(LC 1), 9=1002(LC 17), 6=1002(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-355/62, 2-9=-866/184, 4-6=-866/184

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 9-10-8, Exterior(2R) 9-10-8 to 12-10-8, Interior(1) 12-10-8 to 18-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



REVIEWED FOR EXPIRES: 09/30/2022
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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379991
200542-R2	V02	Valley	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

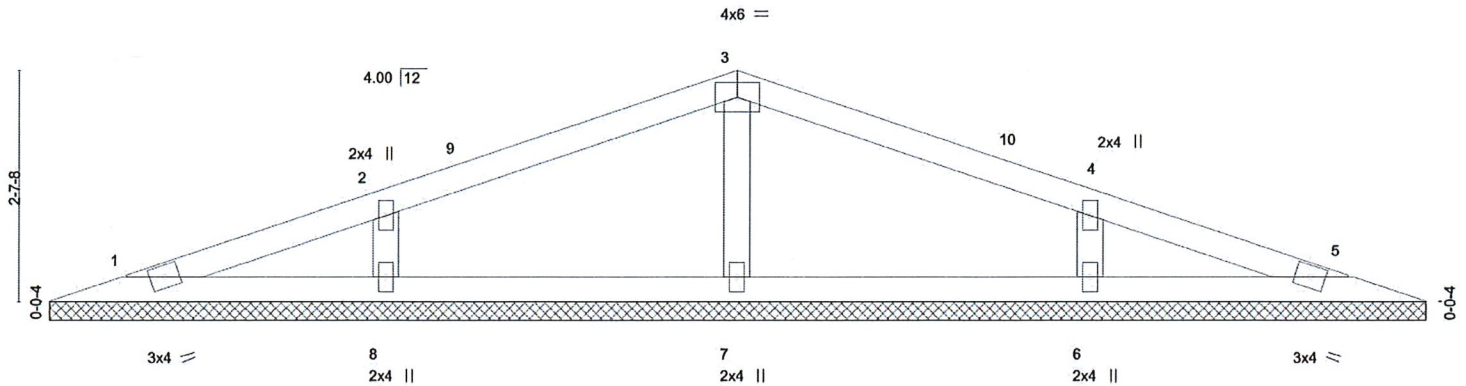
8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:51 2020 Page 1

ID:zw8m9fEhAc?s5uca?VSsBBz3APh-4GEo6fy4_G9h2m?Ttp8R923raS5p9KpoyWLPeKymf96

7-10-8
7-10-8

15-9-0
7-10-8

Scale = 1:25.1



0-0-12				15-9-0																	
0-0-12				15-8-4																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL 40.0		Plate Grip DOL		1.15		TC 0.41		Vert(LL)		n/a		-		n/a		999		MT20		185/144	
(Roof Snow=40.0)		Lumber DOL		1.15		BC 0.07		Vert(CT)		n/a		-		n/a		999					
TCDL 20.0		Rep Stress Incr		YES		WB 0.13		Horz(CT)		0.00		5		n/a		n/a					
BCLL 0.0 *		Code IRC2018/TP12014				Matrix-S												Weight: 39 lb		FT = 20%	
BCDL 10.0																					

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-7-8.
(lb) - Max Horz 1=27(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=504(LC 1), 8=759(LC 17), 6=759(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-424/106, 2-8=-675/169, 4-6=-675/169

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-10-8, Interior(1) 3-10-8 to 7-10-8, Exterior(2R) 7-10-8 to 10-10-8, Interior(1) 10-10-8 to 14-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; PF=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7, 8, 6.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1.



REVIEWED FOR EXPIRES: 09/30/2022
DESIGN CRITERIA August 18, 2020
ONLY

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379992
200542-R2	V03	Valley	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

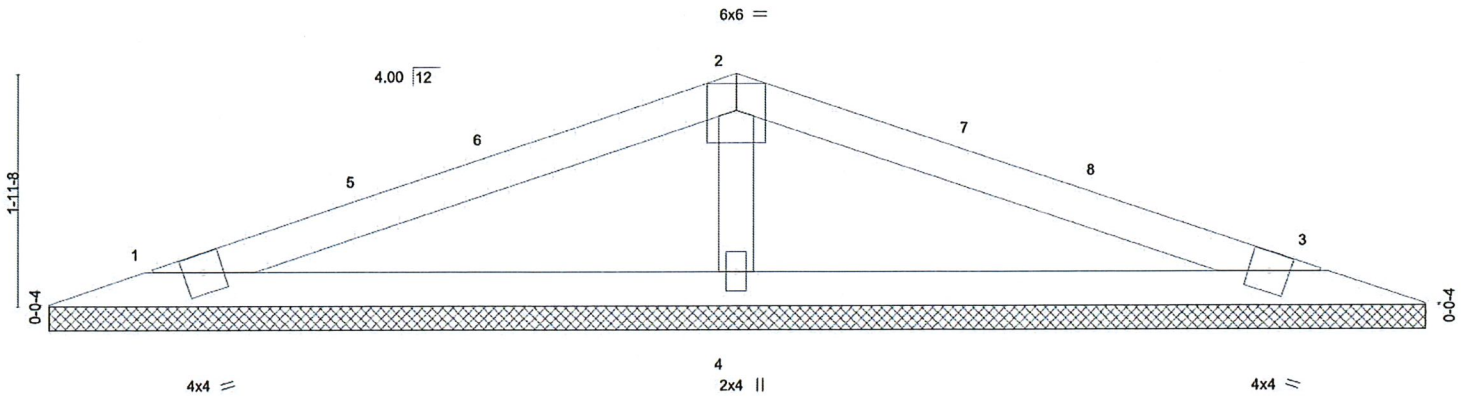
8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Aug 18 09:39:52 2020 Page 1

ID:zw8m9fEhAc?s5uca7VSsBBz3APh-YSoAK?zJlaHYfwalRXgghFbxisOquoCyBA5yAmymf95

5-10-8
5-10-8

11-9-0
5-10-8

Scale = 1:18.6



0-0-12			11-9-0									
0-0-12			11-8-4									
LOADING (psf)			SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL 40.0			2-0-0		TC 0.76		in (loc) l/defl L/d		MT20		185/144	
(Roof Snow=40.0)			Plate Grip DOL 1.15		BC 0.27		Vert(LL) n/a - n/a 999					
TCDL 20.0			Lumber DOL 1.15		WB 0.13		Vert(CT) n/a - n/a 999					
BCLL 0.0 *			Rep Stress Incr YES		Matrix-S		Horz(CT) 0.00 3 n/a n/a					
BCDL 10.0			Code IRC2018/TPI2014						Weight: 27 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 HF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=11-7-8, 3=11-7-8, 4=11-7-8
Max Horz 1=-19(LC 11)
Max Uplift 1=-33(LC 13), 3=-33(LC 13), 4=-61(LC 13)
Max Grav 1=407(LC 17), 3=407(LC 18), 4=779(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-609/230

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 5-10-8, Exterior(2R) 5-10-8 to 8-10-8, Interior(1) 8-10-8 to 10-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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EXPIRES: 09/30/2022
August 18, 2020

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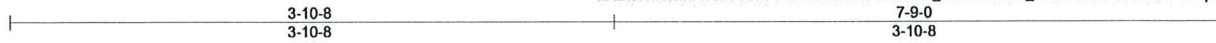


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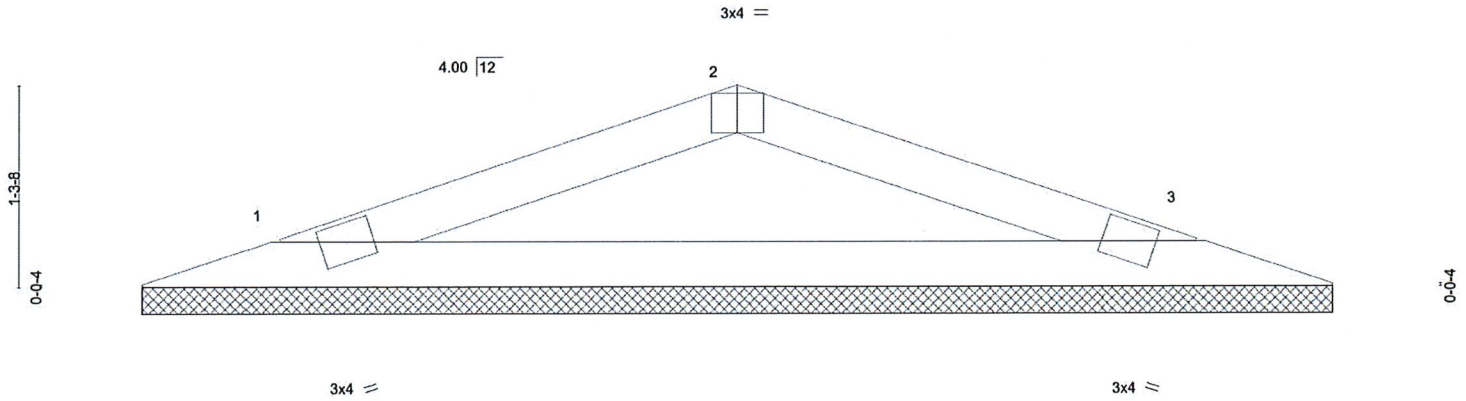
Job	Truss	Truss Type	Qty	Ply	Yavapai County Standard plans	R63379993
200542-R2	V04	Valley	1	1	Job Reference (optional)	

Foxworth Galbraith Lbr Co (Dewey, AZ), Dewey, AZ - 86327,

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Scale = 1:14.1



0-0-12	7-9-0
0-0-12	7-8-4
Plate Offsets (X,Y)-- [2:0-2-0,Edge]	
LOADING (psf)	SPACING-
TCLL 40.0	2-0-0
(Roof Snow=40.0)	Plate Grip DOL 1.15
TCDL 20.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2018/TPI2014
	CSI.
	TC 0.33
	BC 0.32
	WB 0.00
	Matrix-P
	DEFL.
	in (loc) l/defl L/d
	Vert(LL) n/a - n/a 999
	Vert(CT) n/a - n/a 999
	Horz(CT) 0.00 3 n/a n/a
	PLATES
	MT20
	GRIP
	197/144
	Weight: 16 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=7-7-8, 3=7-7-8
Max Horz 1=-12(LC 11)
Max Uplift 1=-38(LC 13), 3=-38(LC 13)
Max Grav 1=441(LC 17), 3=441(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-595/314, 2-3=-595/325
BOT CHORD 1-3=-268/521

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.6psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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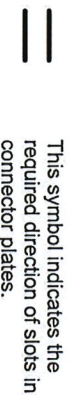
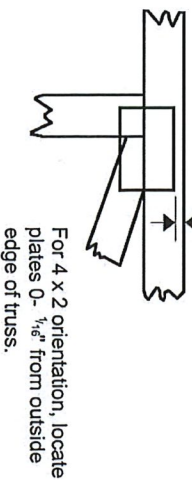
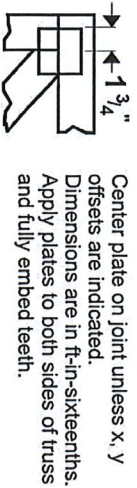
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek 20/20 software or upon request.

PLATE SIZE

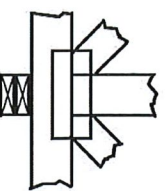
4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



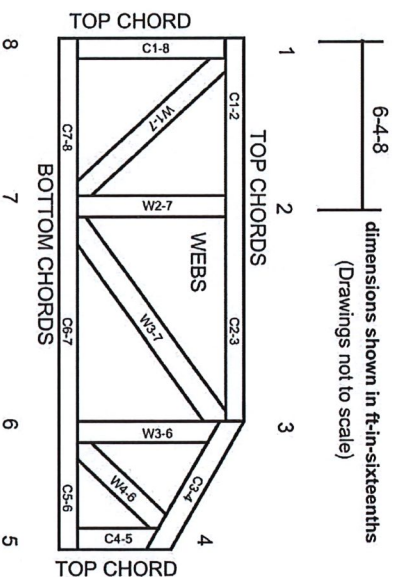
BEARING



Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and ware at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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